

The diagram illustrates a distributed system architecture with three main layers: Services Layer, Application Layer, and Presentation Layer.

- Services Layer (Top):** Contains various services and their associated databases.
 - Billing:** Includes a Billing database (174) and a Billing service (172).
 - Catalog:** Includes a Catalog database (182) and a Catalog service (180).
 - Admin:** Includes an Admin database (186) and an Admin service (188).
 - Events:** Includes an Events database (196) and an Events service (197).
 - Performance:** Includes a Performance database (198) and a Performance service (184).
 - Transactions:** Includes a Transactions database (199) and a Transactions service (192).
 - Notifications:** Includes a Notifications database (190) and a Notifications service (194).
 - Address Management:** Includes an Address Management database (190) and an Address Management service (194).
- Application Layer (Middle):** Contains the core logic and data management components.
 - Event Bus (RMS):** A central component (156) that facilitates communication between services and the presentation layer.
 - Accounting Server:** (160)
 - Billing Manager:** (164)
 - Billing Manager:** (186)
 - Telephone Server:** (158)
 - OTA Manager:** (154)
 - System Manager:** (152)
 - Mobile Manager:** (150)
- Presentation Layer (Bottom):** Contains the user interface and external connections.
 - Telephone Server:** (170) - Connects to the PSTN (Public Switched Telephone Network) (159).
 - Internet:** (168) - Connects to various external services and applications.
 - External Services:** (162)
 - External Applications:** (162)
 - External Data:** (162)

The diagram shows the flow of data and control between these components, with the Event Bus (RMS) acting as a central hub for the Application Layer.

Fig. 1

10005597.110701

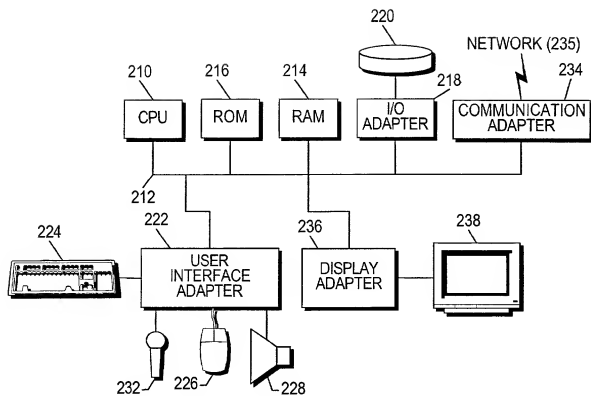


Fig. 2

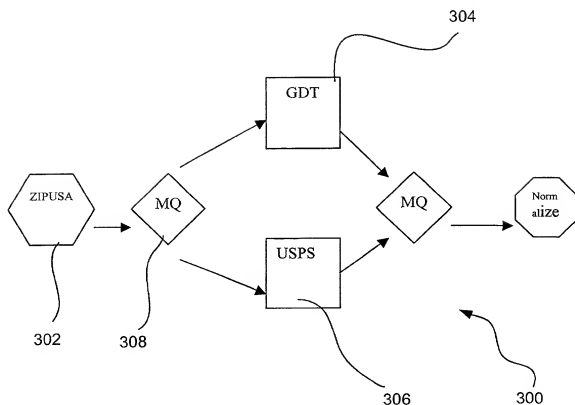


Fig. 3

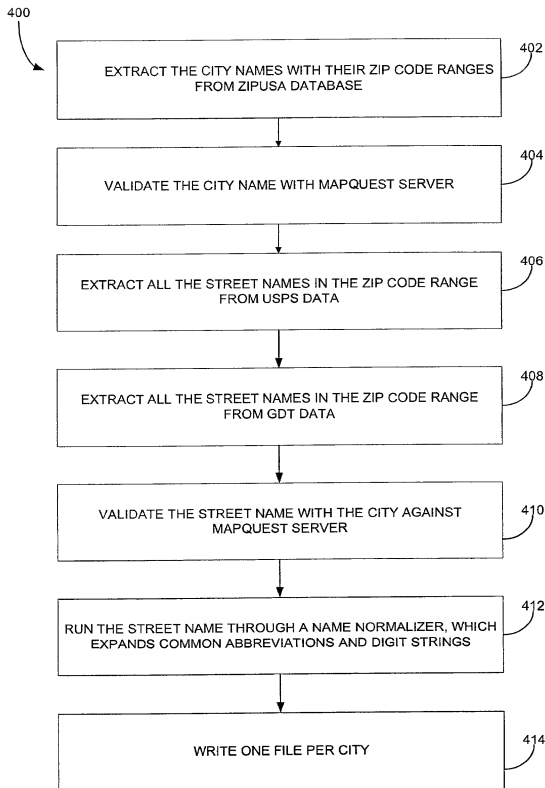


Fig. 4

1005597.10701
10/01/2006

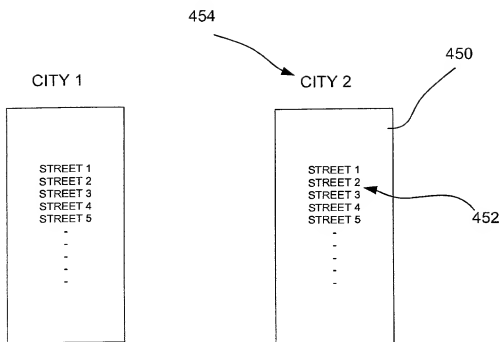


Fig. 4A

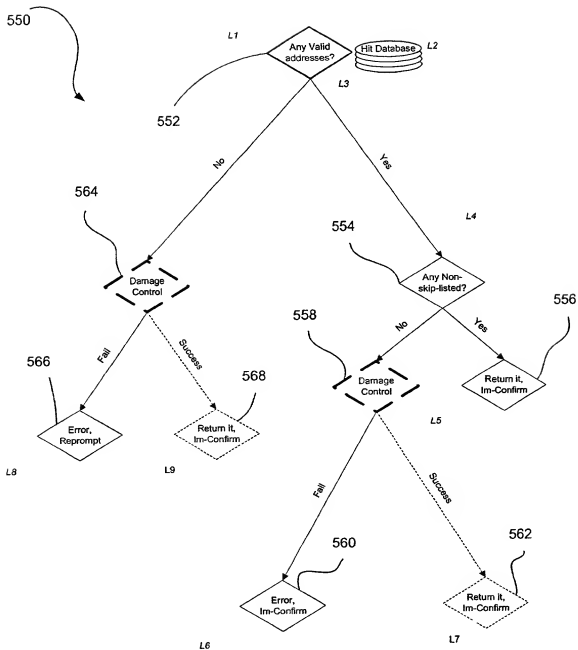


Fig. 5

500

L10

Recombine
n-best

502

Remove
Duplicates

L11

504

Remove
skip-listed

L12

506

Validate

L13

508

L14

List Length?

510

n = 0

n > 0

L15

Fail

512

Succeed

514

518

Merged n-best
(sorted by confidence)

1. 9082 Walsh
2. 982 Wallace
3. 92 Walsh

Skip List

1. 9082 Walsh
2. 982 Wallace
3. 92 Walsh

516

FIG. 5A